## Theoretical/Computational Studies of X-Ray Absorption Spectroscopy

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X-ray absorption is described in terms of electronic excitations from core levels to empty bands in electron theory. The noost important advantage of x-ray absorption spectroscopy (XAS) materials physics is that, by tuning the energy and polarization of photon, electronic transitions specific to particular element, orbitals, symmetry, and order states can be selectively measured. Recently, highly intense and tunable synchrotron radiation light sources have been available, and XAS related experiments have been reported. this talk, shal I extensi vel y In ı outline the fundamental s of XAS and introduce recent some of our theoretical/computational studies of XAS, including opti cal activity in broken-inversion systems and core-hole effects on the near-edge structure.

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